



AFI 3671/4

PTO/SB/21 (08-03)
Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/005,820
		Filing Date	12/04/2003
		First Named Inventor	William C. Schneider
		Art Unit	3671
		Examiner Name	Alexandra Pechhold
Total Number of Pages in This Submission		Attorney Docket Number	MSC-23178-1

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input checked="" type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Return Postcard Receipt
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks Notice of Appeal under 37 CFR 1.191		

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	NASA Johnson Space Center James M. Cate, Reg. No. 25,181
Signature	<i>James M. Cate</i>
Date	September 17, 2003

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name	James M. Cate	
Signature	<i>James M. Cate</i>	Date 9-17-2003

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PTO/SB/17 (08-03)

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James M. Cate

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT **(\$)** 410.00

Complete if Known

Application Number	10/005,820
Filing Date	12/4/2003
First Named Inventor	William C. Schneider
Examiner Name	Alexandra Pechhold
Art Unit	3671
Attorney Docket No.	MSC-23178-1

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

14-0116

Deposit Account Number
Deposit Account Name
National Aeronautics and Space Administration

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Fee Code (\$)	Fee	Small Entity	Fee Code (\$)	Fee	Fee Description	Fee Paid
1001	750	2001	375	130	Utility filing fee		
1002	330	2002	165	50	Design filing fee		
1003	520	2003	260	130	Plant filing fee		
1004	750	2004	375	130	Reissue filing fee		
1005	160	2005	80	130	Provisional filing fee		
SUBTOTAL (1) (\$)							

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	<input type="text"/> X <input type="text"/> = <input type="text"/>	
Multiple Dependent	-3** =	<input type="text"/> X <input type="text"/> = <input type="text"/>	

Large Entity	Fee Code (\$)	Fee	Small Entity	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$)				

**or number previously paid, if greater. For Reissues, see above

3. ADDITIONAL FEES

Large Entity	Fee Code (\$)	Fee	Small Entity	Fee Code (\$)	Fee	Fee Description	Fee Paid
1051	130	2051	65	130	Surcharge - late filing fee or oath		
1052	50	2052	25	50	Surcharge - late provisional filing fee or cover sheet		
1053	130	1053	130	130	Non-English specification		
1812	2,520	1812	2,520	2,520	For filing a request for ex parte reexamination		
1804	920*	1804	920*	920*	Requesting publication of SIR prior to Examiner action		
1805	1,840*	1805	1,840*	1,840*	Requesting publication of SIR after Examiner action		
1251	110	2251	55	110	Extension for reply within first month		
1252	410	2252	205	410	Extension for reply within second month		410.00
1253	930	2253	465	930	Extension for reply within third month		
1254	1,450	2254	725	1,450	Extension for reply within fourth month		
1255	1,970	2255	985	1,970	Extension for reply within fifth month		
1401	320	2401	160	320	Notice of Appeal		
1402	320	2402	160	320	Filing a brief in support of an appeal		
1403	280	2403	140	280	Request for oral hearing		
1451	1,510	1451	1,510	1,510	Petition to institute a public use proceeding		
1452	110	2452	55	110	Petition to revive - unavoidable		
1453	1,300	2453	650	1,300	Petition to revive - unintentional		
1501	1,300	2501	650	1,300	Utility issue fee (or reissue)		
1502	470	2502	235	470	Design issue fee		
1503	630	2503	315	630	Plant issue fee		
1460	130	1460	130	130	Petitions to the Commissioner		
1807	50	1807	50	50	Processing fee under 37 CFR 1.17(q)		
1806	180	1806	180	180	Submission of Information Disclosure Stmt		
8021	40	8021	40	40	Recording each patent assignment per property (times number of properties)		
1809	750	2809	375	750	Filing a submission after final rejection (37 CFR 1.129(a))		
1810	750	2810	375	750	For each additional invention to be examined (37 CFR 1.129(b))		
1801	750	2801	375	750	Request for Continued Examination (RCE)		
1802	900	1802	900	900	Request for expedited examination of a design application		
Other fee (specify) _____							

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 410.00

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	James M. Cate	Registration No. (Attorney/Agent)	25,181	Telephone	281-483-1001
Signature	<i>James M. Cate</i>			Date	<i>9-17-2003</i>

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